MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Refere to la Measure
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Improvements to Roads o Rcc Drains at Babarayara Main an Cross Roads Dwaralleandyara and Surro -ding Area in Ward No 05,						
	Job code: 0057-20-000092						
	Work order No: BBMP/EE/BTP/WO/134/20 Dt 7/10/20						
	Name of contractor: M/s. Sathya Construction (Pro R Satheesh, No 600, Down Bazar Road, Yelahanka Bangalore-64						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

354334

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) Dismantling of existing structure like culverts bridges retaining walls & other structures comprising of masonary wood work, steel work including RCC & scaffolding wherever necessary sorting out serviceable materials & stacking the serviceable materials with all lifts etc complete. Qty is as per pre-measurement sheet Item No 1						= 5.63 m³
	Rate 463.95/m³						= 2612.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(2)	Earthwork excavation by manual means in roads, drains & similar cutting in ordinary soil entrenched surface leveled & sides neatly dressed lift disposed earth to be levelled & sides neatly dressed lift disposed earth to be levelled neatly as complete as per premeasurement sheet item no 2						
	@ Rate = 317.98/m³					Qty. 38.12×3 m³ = 12200.96	
(3)	providing & laying P.C.C 9:1×7:3:6 with crushed 40 mm down graded granite metal coarse aggregate & fine aggregate						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354335

Serial No. .....
Name of Work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in foundation mechanically mixed placed in foundation & compacted by vibrating including curing for 14 days as complete as per premeasurement sheet item no 3						
	@ Rate = 369/m³					Qty. 49.65 m³ = 18329.57	
(4)	providing laying plain/reinforced c.c for side drain using M 20 nominal mix concrete with 20 mm down size granite metal coarse aggregate & fine aggregate machine mixed concrete						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	well compacted for road ⇒ Bottom including centering Shuttering cost & materials etc complete. As per measurement sheet vide item no 4 @ Rate 7423.71/m³					Qty = 1068.59 m³ = 7932902=00	
(5)	providing T.M.T bars Fe 500 Steel reinforcement for R.C.C work including Straightening Cutting bending hooking placing in position lapping and welding wherever required tying with binding wire & anchoring to the adjoining members wherever necessary etc complete						

M. A. R. 57 (Rule 116)
Measurement Book
No. B 354336

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty As per pre measurement sheet vide item NO 5 @ Rate 75943.83/Tm					Qty = 75.37 Tm = 5723849=00	
(6)	providing & fixing pre cast covering slab made of cc 1:2:4 with 10 c.m thick & Finishing Cutting including formwork Curing including cost of all materials labour hire charges of machinery loading unloading load & lift transportation etc complete. Qty is as per measurement sheet vide item NO 6						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		③ Rate 2451.75/m²				Qty - 2943.16 m² = 7215893=00	
(7)	providing & fixing pre cast covering slab 250m.m Thick made out of CC 1:2:4 & Jelly 20m.m & down size with steel reinforcement including form work curing including form work including formwork curing curing cost of all materials labour their charges & machinery loading Unloading Lead & Lift transportation etc Complete Qty is as per measurement sheet attached						
	up to 12.5%					⑤ Rate 59.07/m²	
	above 12.5%					⑥ Rate 59.06/m²	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354937

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						= 344005=00	
(8)	Excavation for road work in all type of soil by mechanic means including Cutting & Loading to tippers trimming bottom & side slope in accordance with requirement of lines grades & cross sections & transporting with a lead of 1.00 (KM) & complete Qty is as per measurement sheet attached					Item no 8 Qty - 212.68 m³ = 12563=00 = 206.29 m³ = 12189=00	

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MEASUREMENT BOOK

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
2	Number 3	Length 4	Breadth 5	Depth 6	7	8
Scarifying bituminous concrete 50 mm to 75 mm thick along with premix carpet/surface dressing by road roller attached with scarifier without disturbing the base & shelling the debris including cost of all labour charges HOM of machinery etc complete Qty is As per pre-measurement sheet date no 9						
upto 12%					4083.81 m²	
@ Rate 43.41/m²					= 177275=50	
above 12%					549.73 m²	
@ Rate 43.40/m²					= 23858=50	

M. A. R. 57 (Rule 116)
Measurement Book
No. B

354338

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
(10)	Compaction of original ground by mechanical means including depression rolling including cost of all labour HOM etc complete Qty is As per pre-measurement sheet side item no 10						
	upto 12%					4083.81 m²	
	@ Rate 6.68/m²					= 27280=00	
	above 12%					549.73 m²	
	@ Rate 6.68/m²					= 3672=00	

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MEASUREMENT BOOK

te	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	Construction of granular Sub-base Grading V as Sub base & Crushed aggregate of granite basal material mixing in a machanical mix plant at one, Carriage of mixed materials to work site, spreading in Uniform layers with motor grader on prepared surface & compacting with vibratory power roller to achieve 98% proctor density etc complete up to 12.5%.					612.58 m³	
	@ Rate 2094.87/m³					= 1283153=00	
	above 12.5%.					82.46 m³	
	@ Rate 2094.27/m³					= 172694=00	

M. A. R. 57 (Rule 116)
Measurement Book
No. B
354339

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(12)	providing laying spreading & Compacting Crushed stone aggregates of granite/basalt to uee mix macadam including pre mixing the materials with water at one in machanical mix plant carriage of mixed materials by tipper to site laying in uniform layers with paver in sub-base on well prepared surface & compacting with vibratory roller to achive the desired density etc Commpleate up to 12.5%.					1151.95/m³	
	@ Rate 2101.34/m³					= 2420638=00	
	above 12.5%.					332.83/m³	
	@ Rate 2100.94/m³					= 699256=00	

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MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B

35

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(13)	Clearing the existing WBM Road surface including removing of binding materials and other foreign matter with fine brushes & small picks sweeping with broom or soft brushes & finally dusting with jute gunny bags & air or compressed air to receive bituminous treatment cost of all materials labour, TOM of machinery etc complete						
	up to 12.5 m					5008.56 m²	
	@ Rate 23.37/m²					= 117048.60	
	above 12.5 m					1111.04 m²	
	@ Rate 23.37/m²					= 25961.04	

Date	Full description, etc, of work	Dimensions				Contents	Ref to Meas
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
(14)	providing & applying primer coat with bitumen emulsion on prepared surface of base such as WBM including cleaning surface & spraying primer at the rate complete						
	up to 12.5 m					6085.90 m²	
	@ Rate 30.05/m²					= 182	
	above 12.5 m					731.05 m²	
	@ Rate 31.46/m²					= 22	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	(15) providing & laying dense graded bituminous macadam using crushed aggregate of specified grading premixed with VG30 grade bituminous binder + transporting the hot mix to work site laying to the required grade, level + alignment rolling with smooth wheeled vibratory + tendem rollers to achive the desired compaction in all respect etc complete						
						305.80 m³	
	upto 125% @ Rate 6927.31/m³					= 2118371/=	
	2118371 [illegible]						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354041

Serial No. ....
Name of Work .... From.............................. To..............................
Name of Contractor of nature of Agency ....
Date of commencement of work ....

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	(16) cleaning the existing black topped surface with brooms, soft brushes & finally dusting with old gunny bags + compressed air to receive bituminous treatment including cost of all materials labour HOM of machanous etc complete						
	Qty is as per premeasurment C-2					Item no 15	
						qty - 7061.72m²	
	@ Rate 557/m²					= 3933420	
	(17) providing + applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped						

MEASUREMENT BOOK

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	Number	Length	Breadth	Depth		
2	3	4	5	6	7	8
Surface at 2.5 kg/10m² heating bitumen in boiler fitted with spray set including cost of all materials etc complete Qty as per premeasurement sheet vide date no 17 Qty - 70672 = 94274=00 @ Rate 13.25/m²						
providing & laying bituminous concrete 40mm thick with hot mix plant using crushed aggregate of specified grading premixed with bitumen binder & filler transporting the hot mix to site laying in a paver finisher with all requires grade, level & alignment						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354342

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	rolling with smooth wheeled rollers to achieve the desired compaction in all respects etc complete Qty as per measurement sheet vide date no 18 Qty - 282.427 m³ = 22993.58=00 @ Rate 81411.00/m³						
(19)	Road marking with hot applied thermoplastic compound with reflectorising glass beads on bituminous surface/concrete surface providing						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Flaying of Lat applied thermoplastic compound by using Hire including reflectorising glass beads at 250 gms/m² after Hire including reflectorising glass beads at 250 gms/ft.² etc complete						
	Qty as per measurement given in Item no 19					Qty - 2205.60 m²	
	@ Rate 477.39/m²					= 1172477 = 01	
						35164295 =	
			Add 12%			4219715 = 0	
						TOTAL Rs 39384010 = 0	

25/11/21

25/11/21

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354343

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificat: (1) It is certified that the above work done satisfactorily.						above work
	(2) The above Bill Amount is not claimed any if previous Bills.						claimed

25/11/21

25/11/21

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						cc Drain Asphalt-Road	cc culvert

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354344

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
	2	3	4	5	6		8
	Bangalore main Road		65.55 66.4 229.35m	141.5m 162.7 161.8 162.4m 164.85 164.35m	Gthcs	Bangalore	

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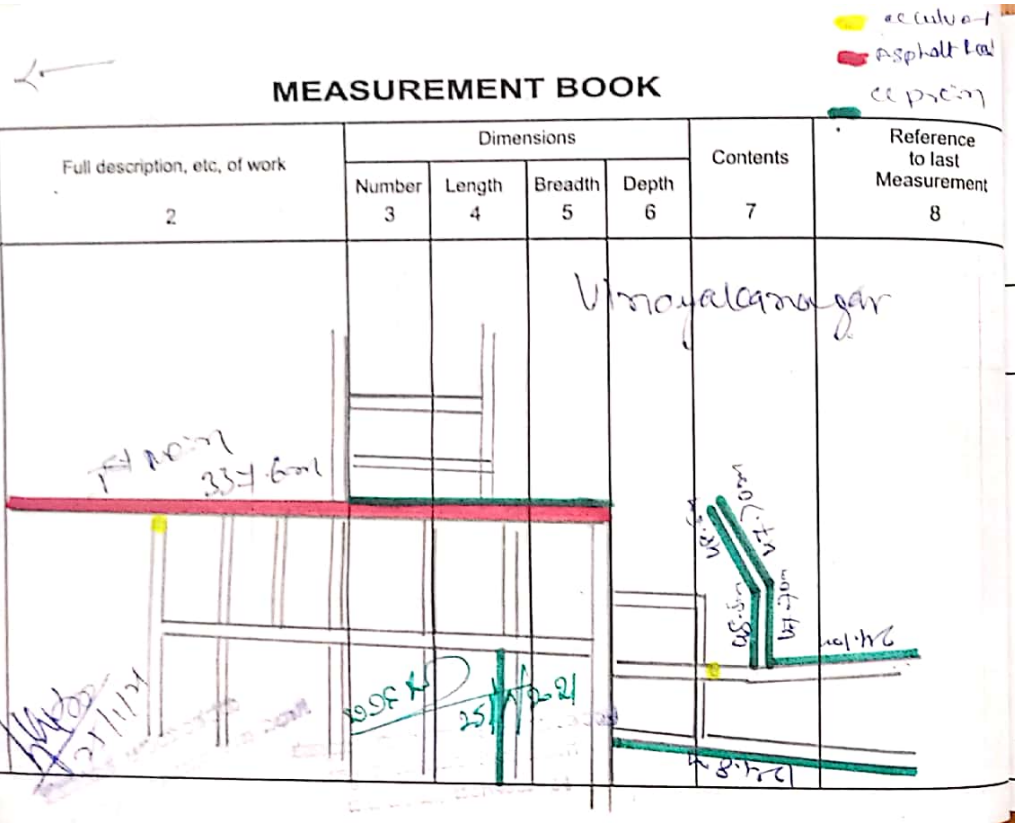
MEASUREMENT BOOK

Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
2	Number 3	Length 4	Breadth 5	Depth 6	7	8
Vinayakanagar						

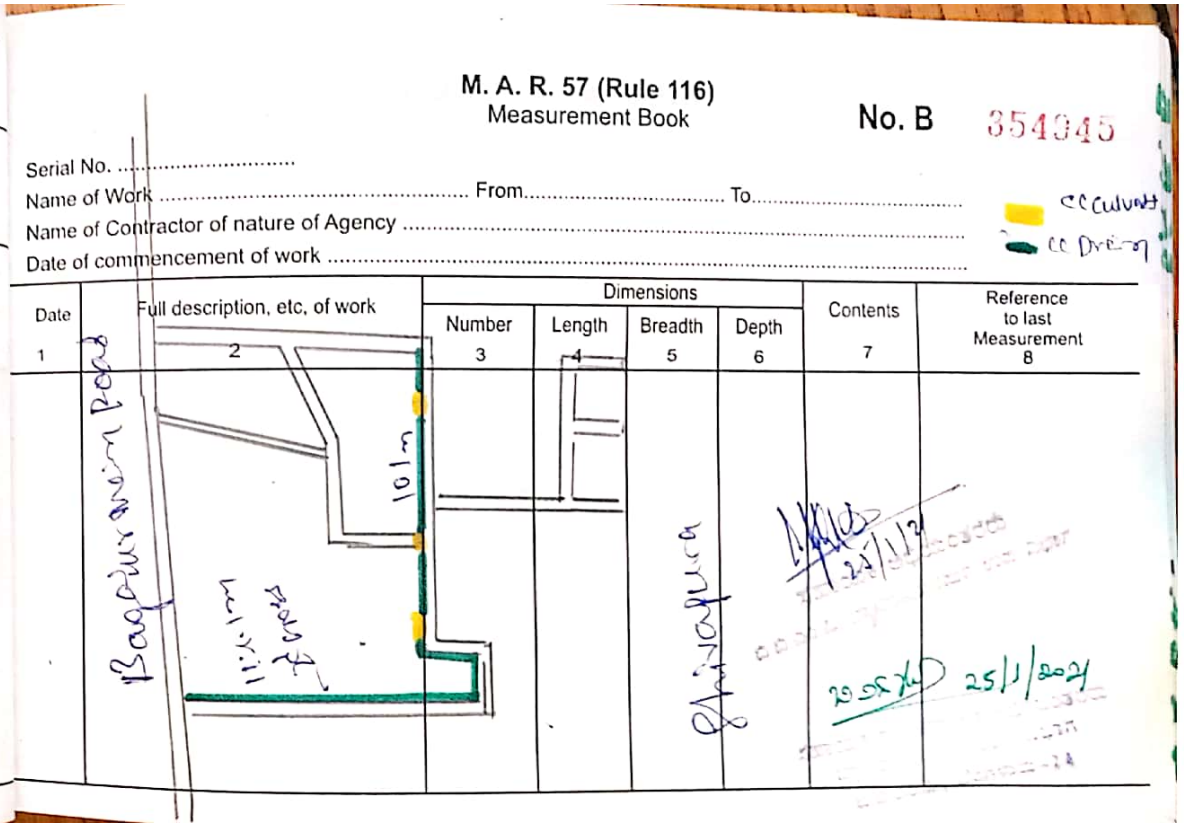


M. A. R. 57 (Rule 116)
Measurement Book

No. B 354345

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
1	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	Bagalur main Road						



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